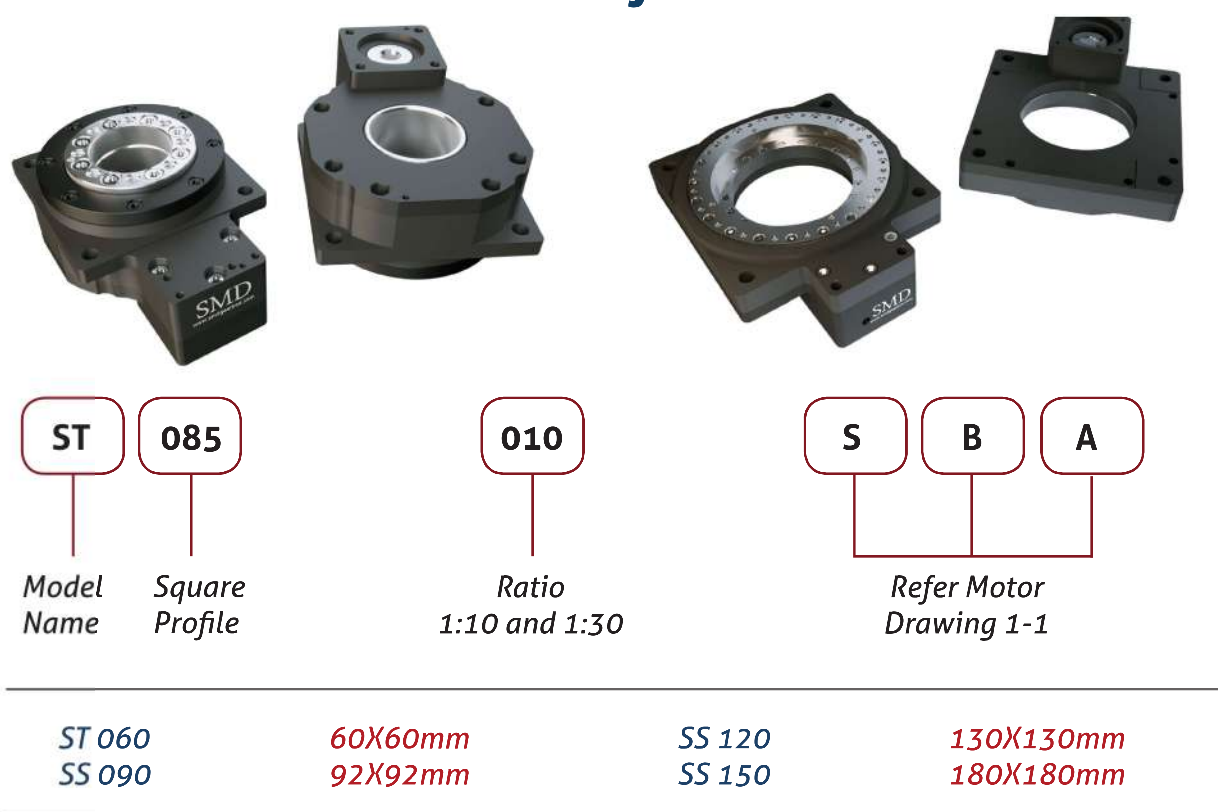
SMD GEARBOX

SMD

BRILLIANTLY AGILE!

HIGH PRECISION SERVO GEARBOX

ST Series-Hollow Rotary Gearbox



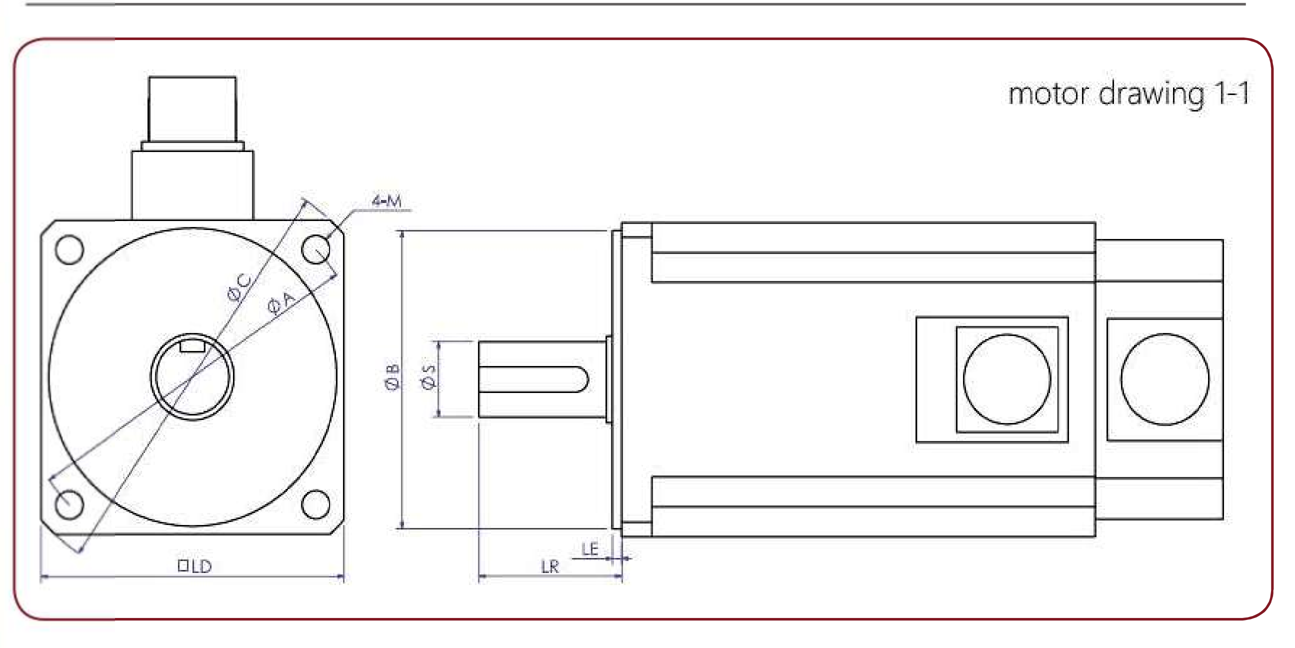
ST — *Model Name*

085 — *Square Profile*

010 — *Ratio 1:10 and 1:30*

S B A — *Refer Motor Drawing 1-1*

ST 060	*60X60mm*	*SS 120*	*130X130mm*
SS 090	*92X92mm*	*SS 150*	*180X180mm*



Feature

» Max backlash 0f 0.5 Arc min.

» Large hollow rotary flange - hollow bore for wiring or shafts.

» Hollow bore driven by your servo motor via large helical ring gear integrated in a rotating flange provides smooth, accurate and fast positioning & indexing.

» Flange rotates on precision high capacity "crosed roller" type bearing for positional accuracy, rigidity and heavy axial loads.

» Larger reduction ratios achievable by inputting with planetary or right angle gearhead

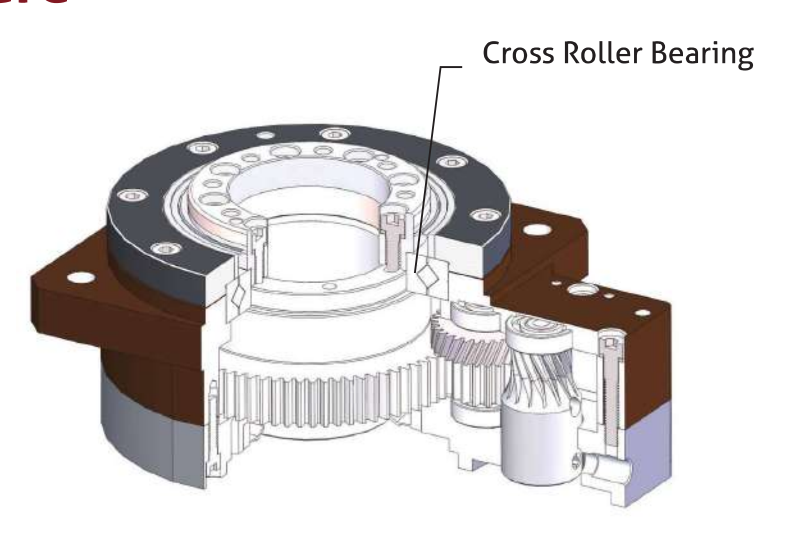
Specification Chart

Performance	Unit	ST85	ST130	ST 200	ST230	ST280	ST 320
Ratio	:	30	10	10	10	10	10
Nominal Output Torque	Kgf*m/Nm	0.51/4.99	5.1/50	6.63/65	8.67/85	9.18/90	14.3/140.3
Maximum Acceleration Torque	Kgf*m/Nm	3 times nominal output torque					
Emergency Stop Torque	Kgf*m/Nm	3.4 times nominal output torque					
Permissible Input Speed	rpm	3,000	3,000	600	600	600	600
Standard Backlash	Arc-min	0.5	0.5	0.5	0.5	0.5	0.5
	Arc-sec	30	30	30	30	30	30
Max. tilting moment at flange face	Kgf*m/Nm	1.02/10	8.4/84.32	14.28/140	65.97/646.45	95.5/939.9	347.1/3402
Maximum radial load	Kgf/N	50/490	200/1960	694/6801	835/8183	1000/9800	3214/31500
Maximum axial load	Kgf/N	25/245	100/980	347/3402	417.5/4091.5	500/4900	1607/15750
Rated Operation Life	hr	10,000 At permissible input speed and nominal output torque.					
Operating Temperature	°C	-10 °C to 40 °C (ambient) / 90 °C (case maximum temp.)					
Lubrication	-	Lubricated for life (Synthetic grease)					
Ingress Protection Class	IP	IP54					
Gearhead Inertia	Kg*cm²	0.02	0.2	3.6	2.3	4.8	20
Efficiency at Full Load	%	80%					
Weight	Kg	0.95	3.6	13.2	16.8	22.5	28.1
No Load Running Torque	Kgf*m/Nm	0.51/0.05	5.1/0.51	7.2/0.7	17/1.666	20/1.96	24.5/2.401

» Larger reduction ratios possible by inputting with an in-line or right angle gearhead.

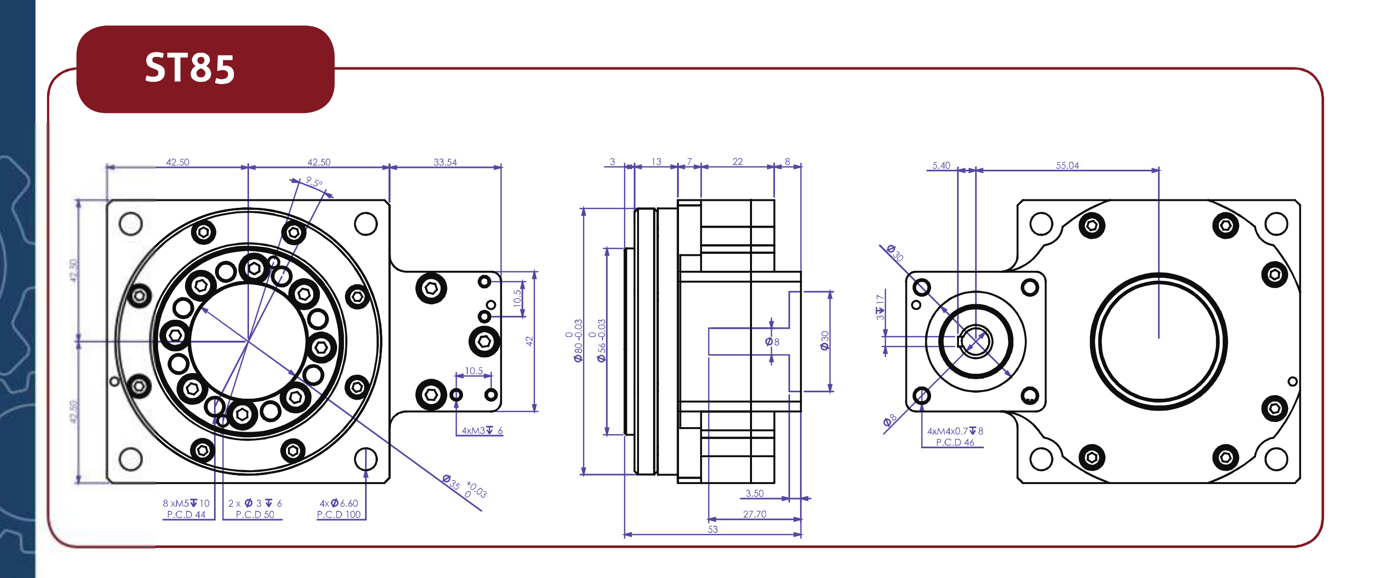
» Efficiency at full load is 90%

ST Structure

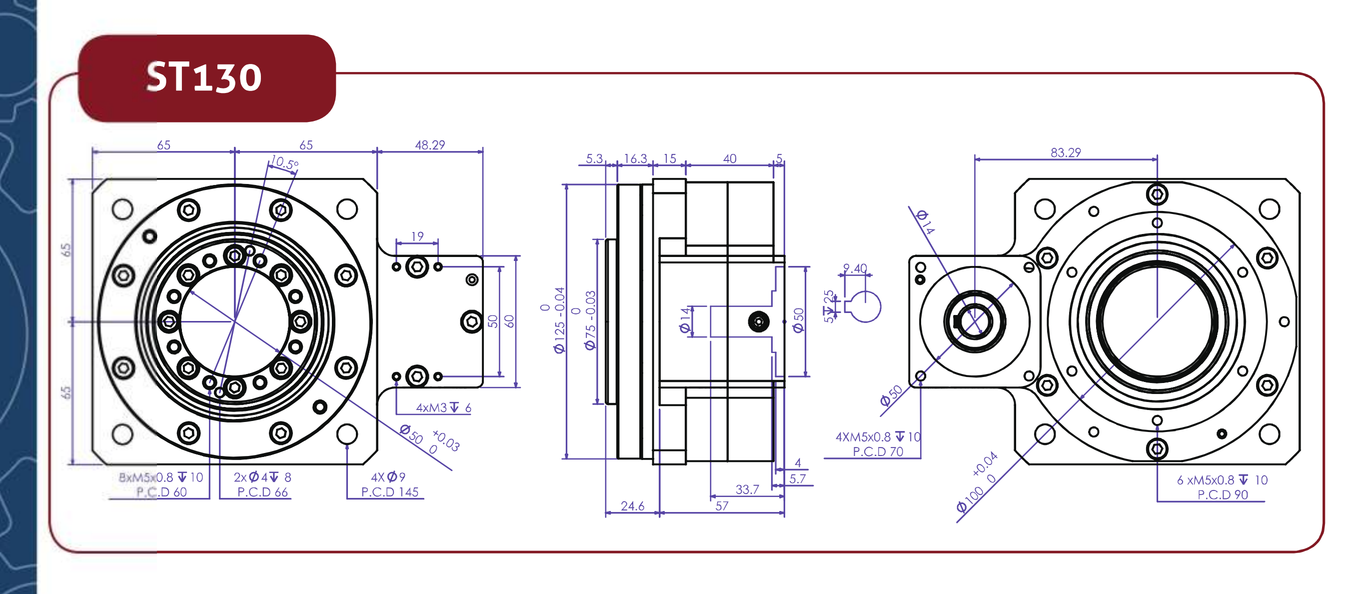


Mechanical dimension

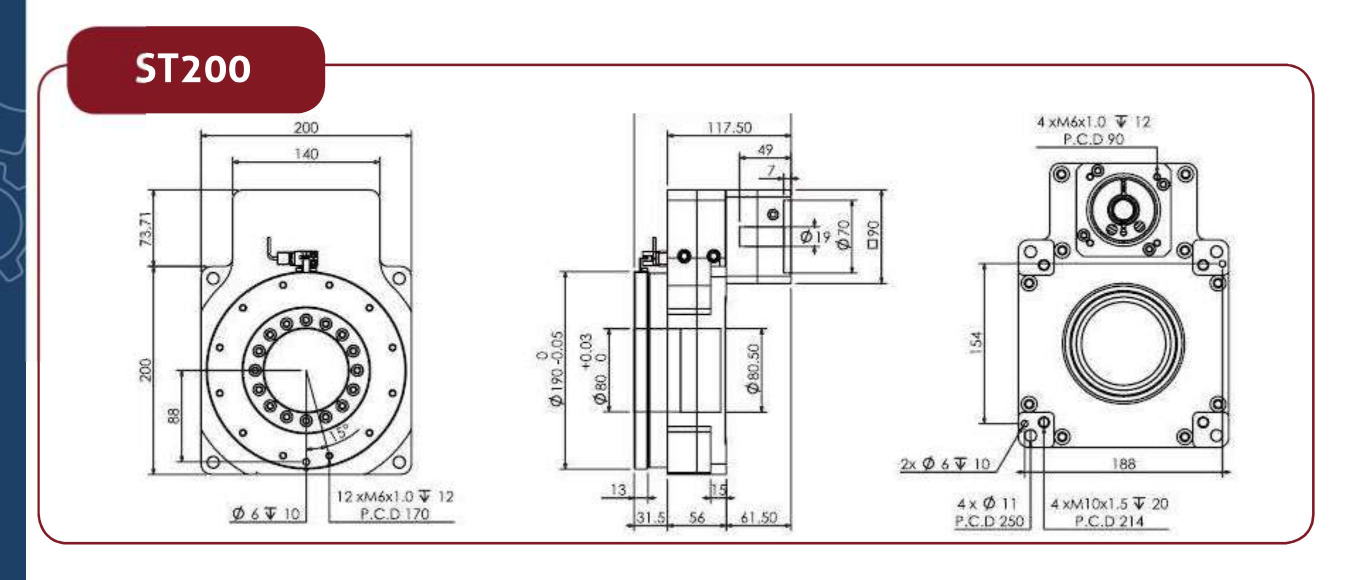
ST85



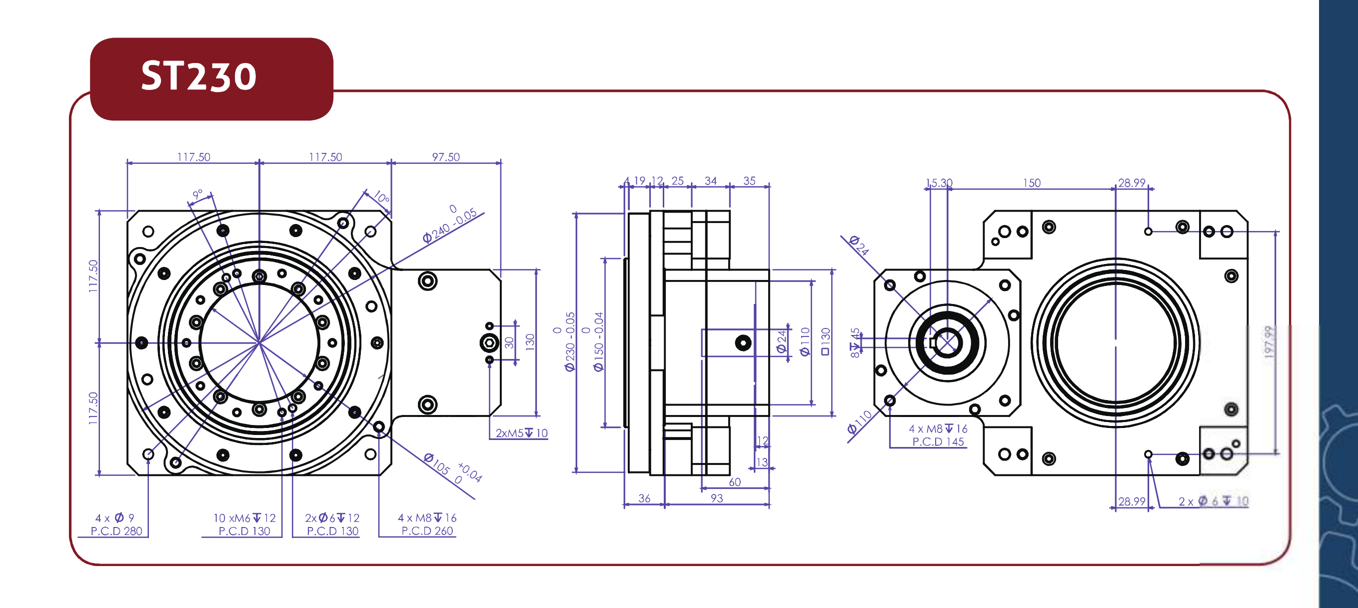
ST130



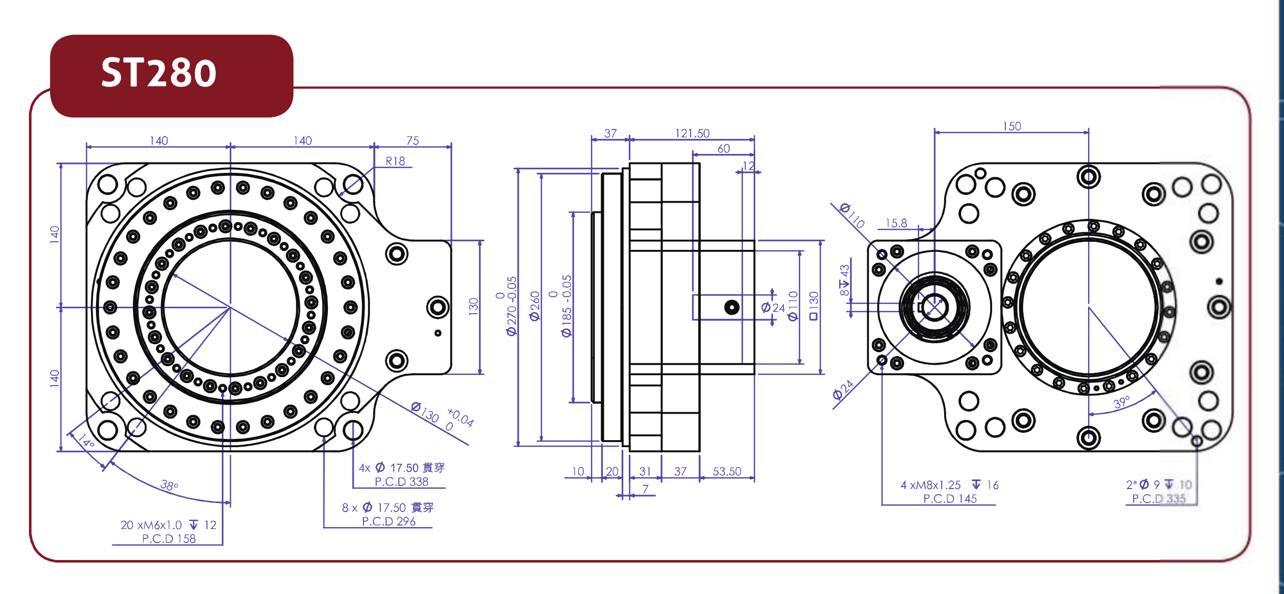
ST200



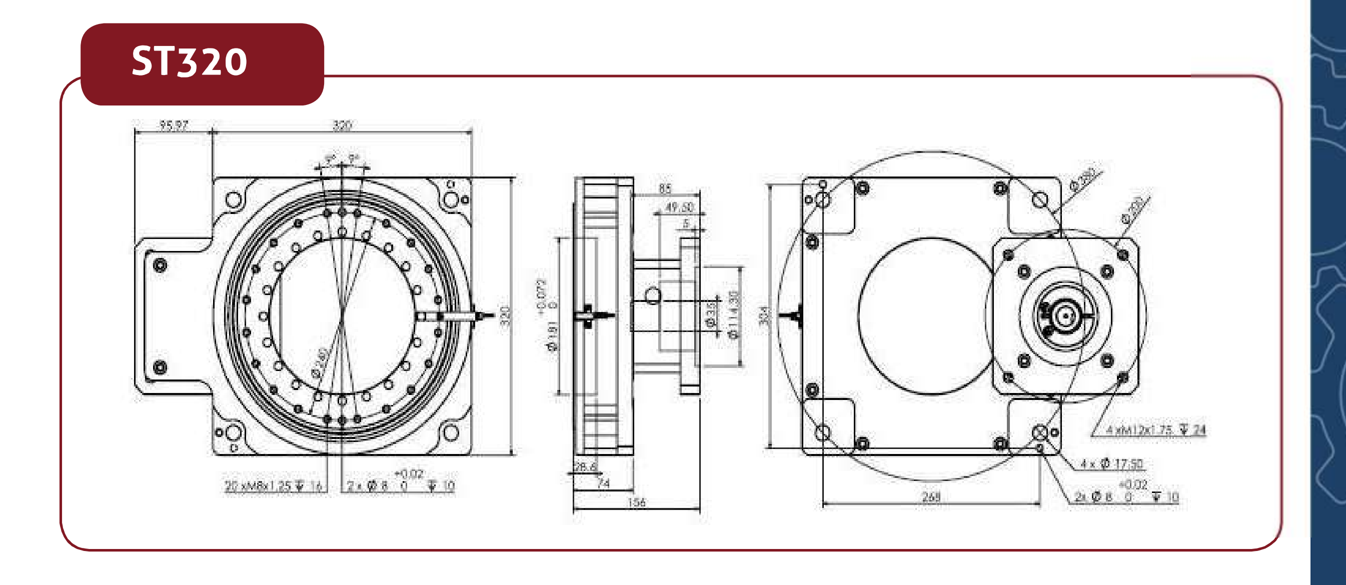
ST230



ST280



ST320



SMD Right Angle Gearbox

4 Reasons to Increase 50% Production

1. EXCLUSIVE PRODUCT, BACKLASH 1 ACR-MIN
2. INCREASES MACHINE WORKING SPEED & STABILITY
3. LOW VIBRATION
4. INCREASE PRODUCTION EFFICIENCY & QUANTITY

GET IN TOUCH!

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